

Compass Big Blue, LLC

8116 Wilson Rd. • Kansas City • MO • 64125 • phone: 816.241.7300 • fax: 816.241.7304

**Cleanup Completion Report
Compass Big Blue Site Investigation
(Old GST Steel Mill) Kansas City, MO**

**Compass Big Blue, LLC
8116 Wilson Road
Kansas City, MO 64125
November 25, 2003**

A041

504757



RCRA

CBB

**Cleanup Completion Report
Compass Big Blue Site Investigation
(Old GST Steel Mill) Kansas City, MO**

**Compass Big Blue, LLC
8116 Wilson Road
Kansas City, MO 64125
November 25, 2003**

Table of Contents

1. Introduction/ Purpose	3
2. Problem Definition/ Background	3
3. Project Description	3
4. Proposed Cleanup Levels	4
5. Corrective Measures Implementation	4
a. Excavation and off-site disposal	4
b. Engineered Barrier with Institutional Controls	5
6. Confirmation Sample Results	7
7. Quality Assurance/ Quality Control	7
8. Potential Future Use of Property	8
9. Summary	8

List of Tables

Table 1 – Confirmation Soil Sample Results Compared to Standards	7
Table 2 - Field QA/QC Results	7

Appendices

Appendix A - Site Map

Appendix B - Drawing showing soil removal area at SWMU 8 and 11

Appendix C - Drawing showing confirmation soil sample locations

Appendix D - Field Excavation and Sampling Notes

Appendix E - Pace Analytical Lab Report (Confirmatory Samples)

Appendix F - Pace Analytical Lab Report (Composite of Lead Impacted Surface Soil)

Appendix G - Waste Manifests

Appendix H - Drawing showing SWMU 25 and SWMU 26 locations with
Proposed deed restriction boundaries

Appendix I - Photos

1. Introduction/Purpose

This report has been prepared by Compass Big Blue, LLC (CBB) for its facility located at 8116 Wilson Rd. in Kansas City, MO (Site). The cleanup completion report for contaminated soils removed or capped within CBB property, specifically SWMU's 8 and 11, 25 and 26 is identified herein. A variety of feasible remedial options were contemplated and analyzed by CBB for site cleanup. CBB implemented its proposed cleanup option identified in the "Recommendation for Cleanup Report, dated August 20, 2003," which is believed to be the best cleanup option for each SWMU mentioned above based on future site reuse. Site cleanup commenced in July 2003 and was completed in October 2003.

2. Problem Definition/Background

The Site is located on approximately 300 acres in northeast Kansas City, Missouri. Land use in the vicinity of the Site is characterized by medium to heavy industrial activity. The property is zoned M2A Heavy Industrial by the city of Kansas City, Missouri. For over the past 100 years the site has been a steel production and manufacturing facility until operations ceased in 2001. Currently the site is undergoing demolition and remediation activities as part of future redevelopment.

Several SWMU's were identified during a RCRA Facility Investigation conducted by a former property owner, AK Steel, during the 1990's. Although the SWMU's were delineated no sound conclusions or cleanup remedies were derived during the former investigations. Three SWMU's were identified on CBB property and were further delineated in June 2003. The SWMU's are herein referred to as SWMU 8 and 11, SWMU 25 and SWMU 26.

3. Project Description

As directed by United States Environmental Protection Agency, Region VII ("EPA") CBB conducted exploratory sampling and analysis of soils at the former GST Steel Mill, which is part of the Site, in June 2003. The results were confirmed by an independent laboratory. The samples were analyzed for lead and cadmium based on qualitative results of the RFI conducted by AK Steel (Burns & McDonnell 1999).

4. Proposed Cleanup Levels

The adult lead uptake-biokinetic model developed by EPA (1996) was used to determine potential risks to on-site workers for lead, and to calculate a final protective cleanup level. The referenced model assumes that the most sensitive worker populations, which may be exposed to lead, are pregnant women and women of childbearing age. It is assumed that the risk lies with the presumed potential for lead uptake by a fetus. Using the adult lead model, workers exposed to soils in areas within SWMU 8 and 11 may be subject to an unacceptable exposure to lead. The risk-based cleanup level for lead in on-site soils developed using the adult lead model is 2,000 ppm.

5. Corrective Measures Implementation

a. Excavation and Off-Site Disposal

SWMU 8 and 11

Excavation and off-site disposal of lead impacted soils from SWMU 8 and 11 was implemented by CBB because it is the most permanent solution for these SWMUs. Surface soils were removed to a minimum depth of 3 inches along the outer edges of SWMU. The upper 6 inches of soil was excavated in an east/west traverse of the baghouse railcar hopper loading areas at SWMU 8 and 11 (Appendix B - Drawing showing soil removal area at SWMU 8 and 11). Soils were removed from areas which were previously sampled and found to exceed 2,000 ppm lead and to a depth sufficient to delineate the extent of lead impacted soil based upon field observations (Appendix D – Field excavation and sampling notes).

Confirmatory samples were collected after contaminated soil had been removed. Seven confirmatory samples were collected directly below the 7 initial surface soil characterization samples which showed lead impact greater than 2,000 ppm. Confirmatory samples were used to define vertical extent of lead impact, confirm field observations and show that all lead impacted soils at or above 2,000 ppm had been removed from SWMU 8 and 11.

A composite sample of impacted surface soil at east and west baghouse showed that the soil was non hazardous (Appendix F – Pace Analytical Lab Report [Composite of Impacted Surface Soil]). CBB removed approximately 200 cubic yards of soil from below the east and west bag house hoppers. The soil removed from this SWMU was temporarily staged on top of visquene plastic liners, and then covered with visquene to prevent surface water contact. Soil was loaded by

CBB into dump trucks and hauled to Johnson County landfill at 17955 Holiday Drive, Shawnee, KS, 66217 (Appendix G – Waste Manifests). CBB loaded 160 cubic yards of soil on October 3, 2003 and loaded the final 40 cubic yards of soil October 7, 2003. The excavation area below east and west baghouses was backfilled with clean aggregate from on-site.

Removing the lead impacted soils at SWMU 8 and 11 from the site has eliminated the potential for human exposure to contaminated soils, thus protecting human health and environment. Proposed cleanup standards were met by removing the soil from site. By removing contaminants the source of release is controlled and eliminated. Waste generated from SWMU removal was disposed of at an authorized and regulated off-site landfill in full compliance with Federal and State standards for management of waste.

Excavation and off-site removal is a proven and reliable technology for long term reliability and effectiveness. By removing contaminated soils from site, the residual risk for potential human exposure through ingestion is eliminated. No long term maintenance is required because contaminants above proposed action levels are no longer present on site.

b. Engineered Barrier with Institutional Controls

SWMU 25

An engineered barrier with institutional controls was selected by CBB as the best clean-up option for SWMU 25 (Drawing showing SWMU 25 and SWMU 26). An asphalt barrier was constructed over the entire surface area of SWMU and at least 50 feet beyond the surface boundaries in all directions. The asphalt will serve as an engineered cap for contaminated soil left in place. Institutional controls in the form of a deed restriction will be implemented. The deed restriction will prohibit a future land owner from removing or compromising the integrity of the engineered cap. Additionally, according to current Kansas City zoning restrictions, the area may be used only for industrial.

The engineered barrier and deed restriction eliminates the potential for human exposure to contaminated soils, thus protecting human health and environment. The barrier prevents contact with or ingestion of soils contaminated greater than proposed action levels. The source of release will be controlled by the deed restriction in preventing future land owner from removing or disturbing engineered cap. Residual risk is reduced by eliminating soil ingestion pathway for human exposure. Potential for future exposure is limited by eliminating the soil ingestion pathway. Asphalt capping is a proven and reliable technology for long term reliability and effectiveness. Periodic maintenance may be required to ensure integrity of asphalt cap is preserved. Maintenance of asphalt cap is addressed in property deed restriction.

SWMU 26

An engineered barrier with institutional controls was selected by CBB as the best clean-up option for SWMU 26 (Drawing showing SWMU 25 and SWMU 26). An asphalt barrier was constructed over the entire surface area of SWMU and at least 50 feet beyond the surface boundaries in all directions. The asphalt serves as an engineered cap for contaminated soil left in place. Institutional controls in the form of a deed restriction will be implemented. The deed restriction will restrict a future land owner from removing or compromising the integrity of the engineered cap above the impacted soil left in place and limits the property to industrial use in the future.

The engineered barrier and deed restriction will eliminate the potential for human exposure to contaminated soils, thus protecting human health and environment. The barrier prevents contact with or ingestion of soils contaminated greater than proposed action levels. The source of release will be controlled by the deed restriction in preventing a future landowner from removing or disturbing engineered cap. Residual risk is reduced by eliminating soil ingestion pathway for human exposure. Potential for future exposure is limited by eliminating the soil ingestion pathway. Asphalt capping is a proven and reliable technology for long term reliability and effectiveness. Periodic maintenance may be required to ensure integrity of asphalt cap is preserved.

6. Confirmation Sample Results

The action level for lead is 2,000 mg/kg, based on EPA's Adult Lead Model. Of the seven confirmation soil samples collected, all were below 2,000 mg/kg for lead (Table 1). They include four samples from SWMU 8 and 11 west baghouse and three samples from east baghouse. Pace Analytical Lab Report (Appendix F).

Table 1
Confirmation Soil Sample Results

Parameter	Standard based on EPA Adult Lead Model (mg/kg)	Confirmation Samples	Sample Depth	Sample Result (mg/kg)
Lead, Total	2,000	BHW - N - C	3-5"	29.9
		BHW - E - C	6-8"	144
		FB - 071603	3-5"	149
		BHW - S - C	6-8"	34.1
		BHW - S + 10' - C	3-5"	23.2
		BHE - C - C	4-6"	200
		BHE - N + 10' - C	3-5"	139
		BHE - S - C	3-5"	199

7. Quality Assurance/ Quality Control

Pace Analytical Quality Assurance/Quality Control (QA/QC) data included in final laboratory report (Appendix E). Field QA/QC results are within acceptable range. A blind duplicate sample FB - 071603 was collected at sample location BHE- N+ 10' - C. The results are in the Table 2.

Table 2
Field QA/QC Results

Sample ID	Sample Result (mg/kg)	% Relative Percent Difference	Within acceptable QA/QC limit (+/- 35%)
BHE- N + 10' - C	139	6.70	Yes
FB - 071603	149		

8. Potential Future Use of Property

Upon completion of demolition and remedial activities the site will be redeveloped as a light industrial use park. End users may include, but not be limited to light manufacturing, warehousing and industrial maintenance. Currently there is an operational steel mill on site producing grinding balls used in mining operations and a railcar cleaning and maintenance operation. The industrial cleanup standards and remedial measures implemented to date are consistent with and protective of future workers and/or end users.

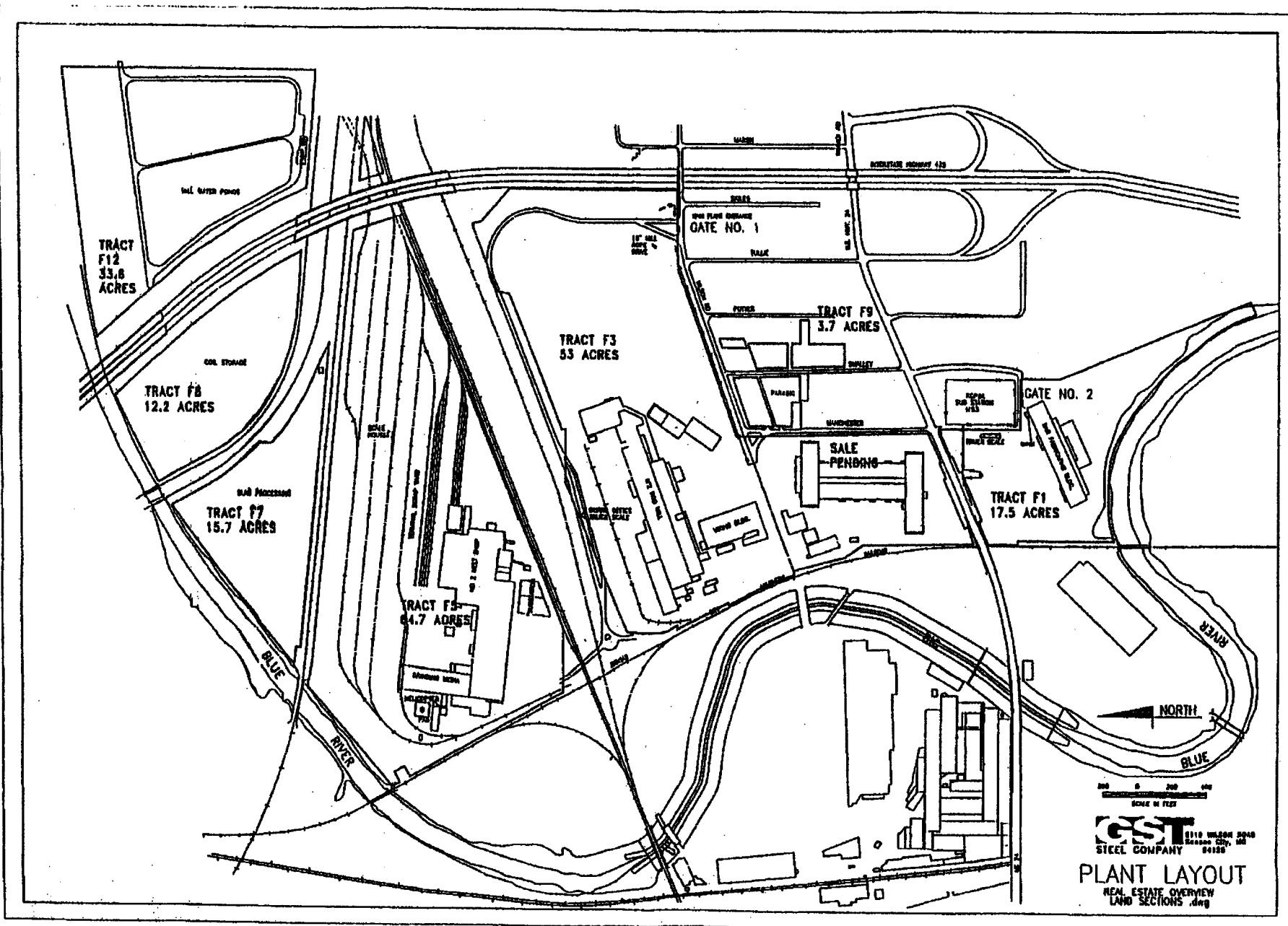
9. Summary

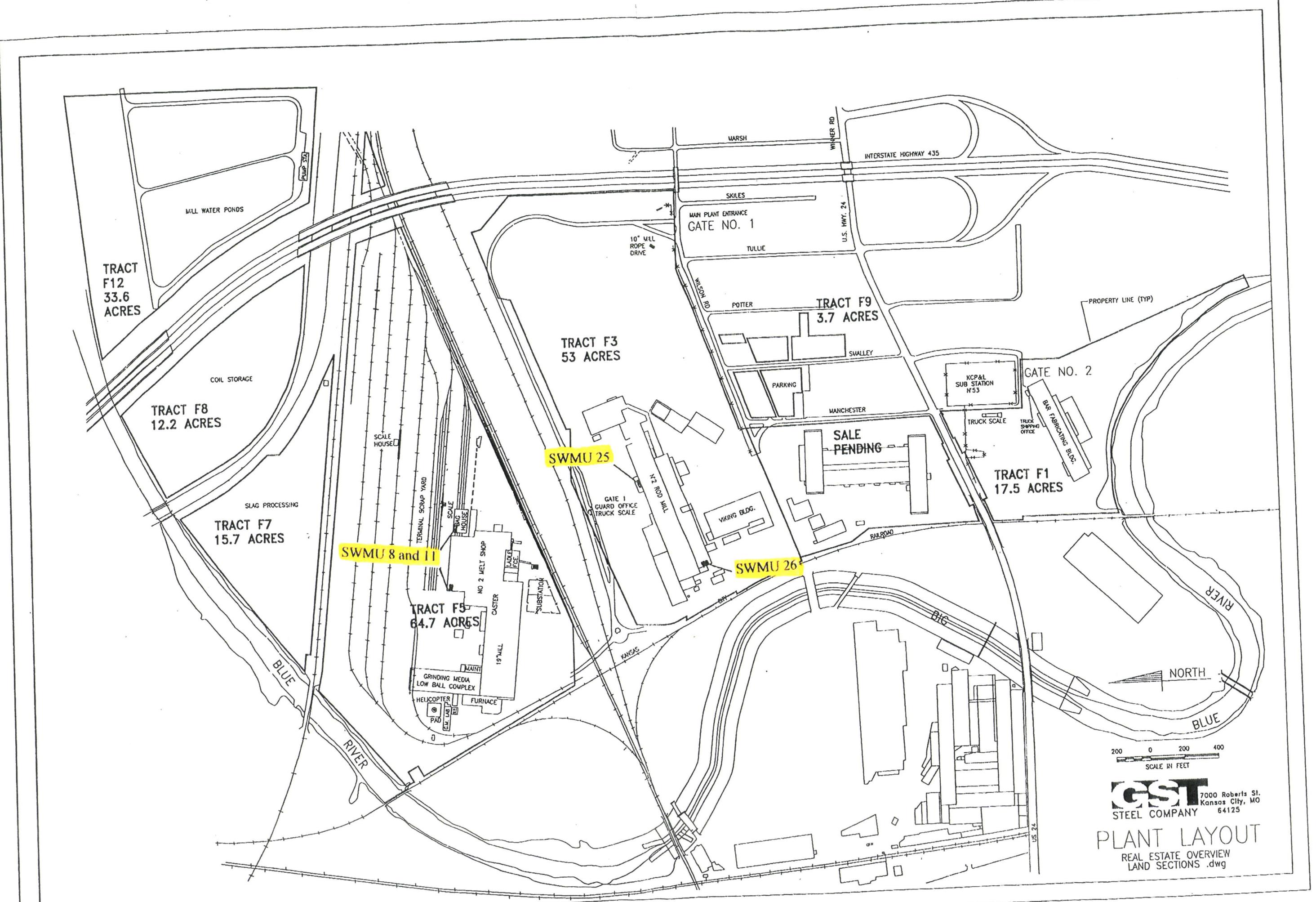
The corrective measures implemented by CBB for on-site impacted soil:

- meet criteria that are protective of human health and the environment,
- control sources of contaminant releases to the environment,
- prevent further releases from occurring,
- attain media cleanup standards, and
- comply with applicable standards for the management of wastes.

Upon approval of this cleanup report by EPA, CBB requests that the property encompassing the three SWMU's (8 and 11, 25, and 26) addressed in this report be removed through permit modification from the RCRA post-closure permit currently held by AK Steel. Removal from the Permit is essential for allowing this site to move forward with redevelopment.

Appendix A
Site Map





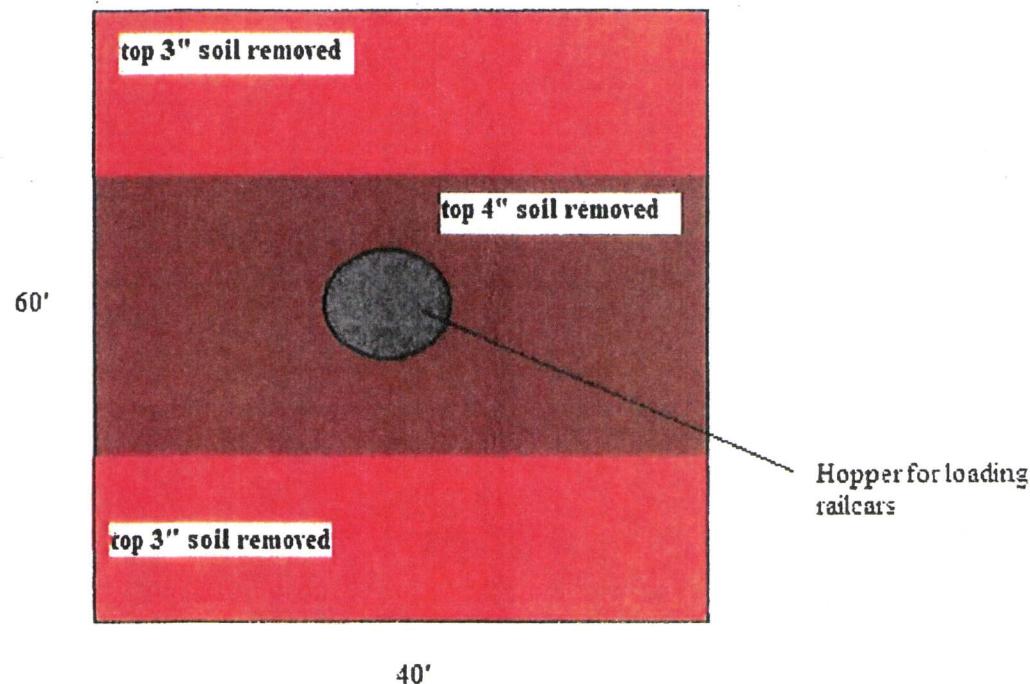
GST
STEEL COMPANY

7000 Roberts St.
Kansas City, MO
64125

PLANT LAYOUT
REAL ESTATE OVERVIEW
LAND SECTIONS .dwg

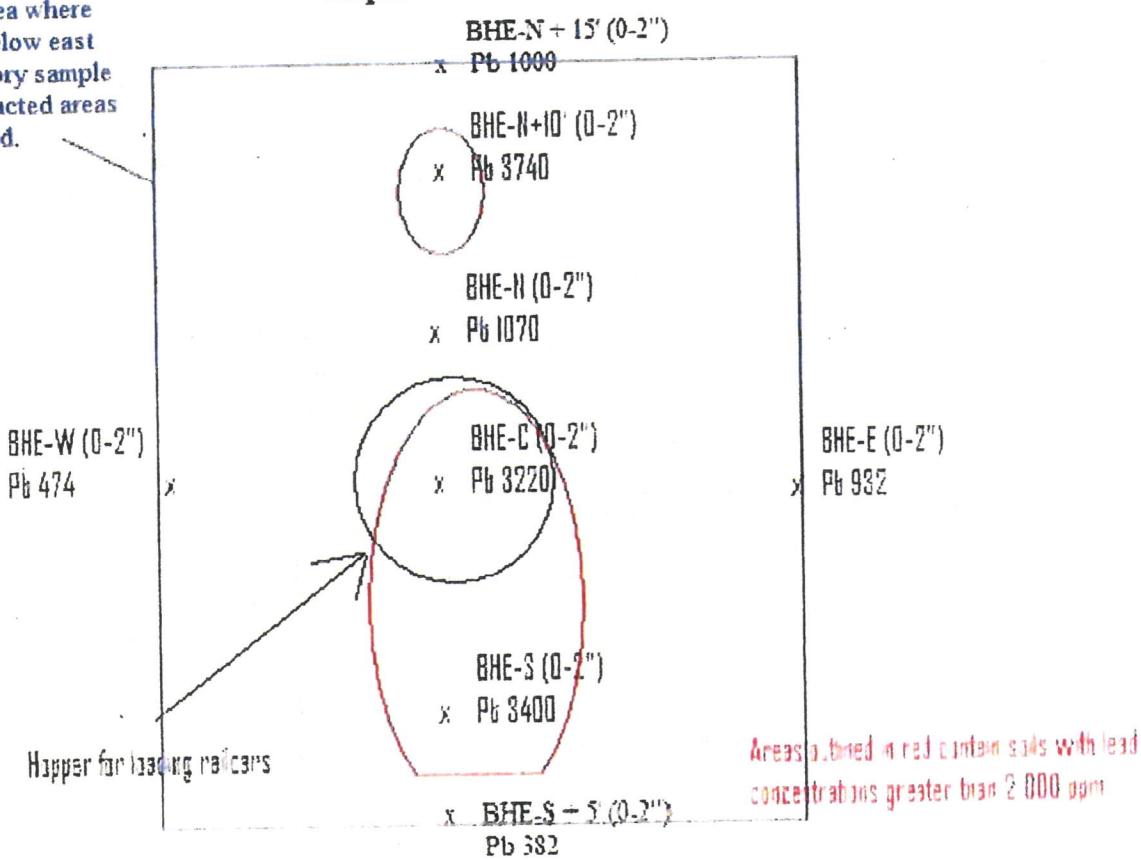
Appendix B
Drawing showing soil removal area at SWMU 8 and 11

**SWMU 8 and 11
East Baghouse Hopper
Soil Removal Area**

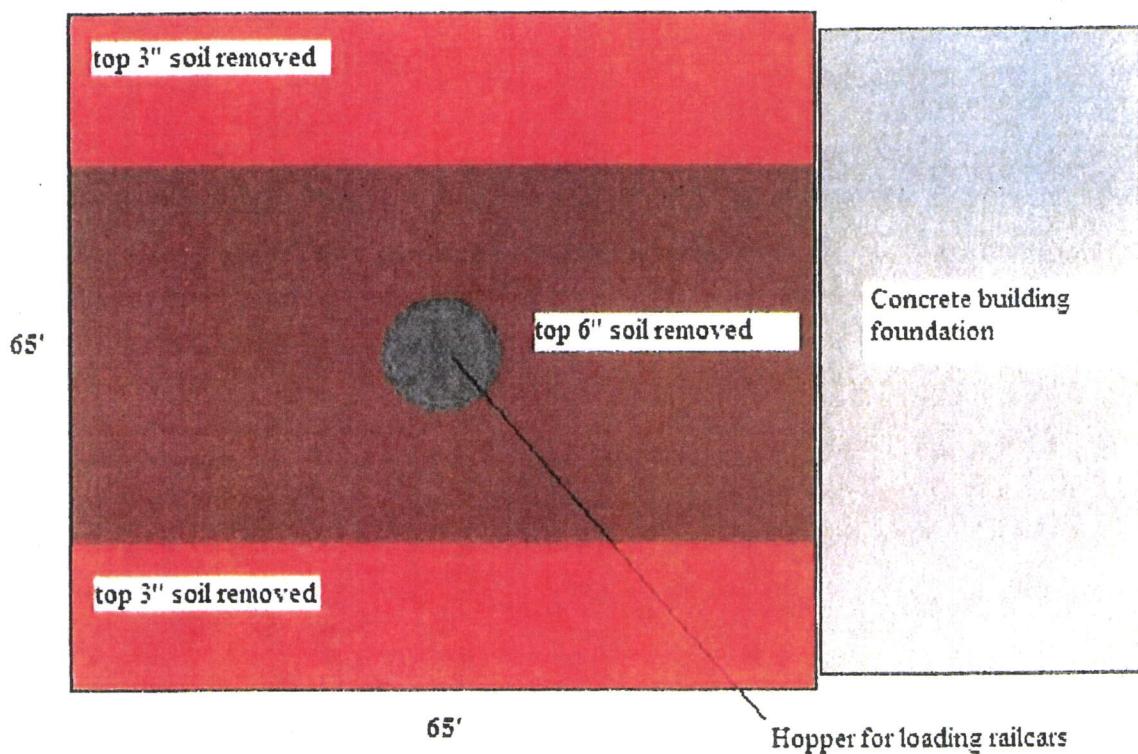


**SWMU 8 and 11
East Baghouse Hopper
Impacted Soils Removed**

Blue box includes area where soil removed from below east baghouse. Exploratory sample results and lead impacted areas shown in background.



**SWMU 8 and 11
West Baghouse Hopper
Soil Removal Area**



Appendix C
Drawing showing confirmation soil sample locations

**SWMU 8 and 11
East Baghouse Hopper
Confirmation Sample Locations**

x BHE - N + 10' (3-5") - C
Pb 139 ppm

x BHE - C (4-6") - C
Pb 200 ppm

Hopper for loading railcars

x BHE - S (3-5") - C
Pb 199 ppm

SWMT 8 and 11
East Baghouse Hopper
Confirmation and Exploratory Sampling Locations

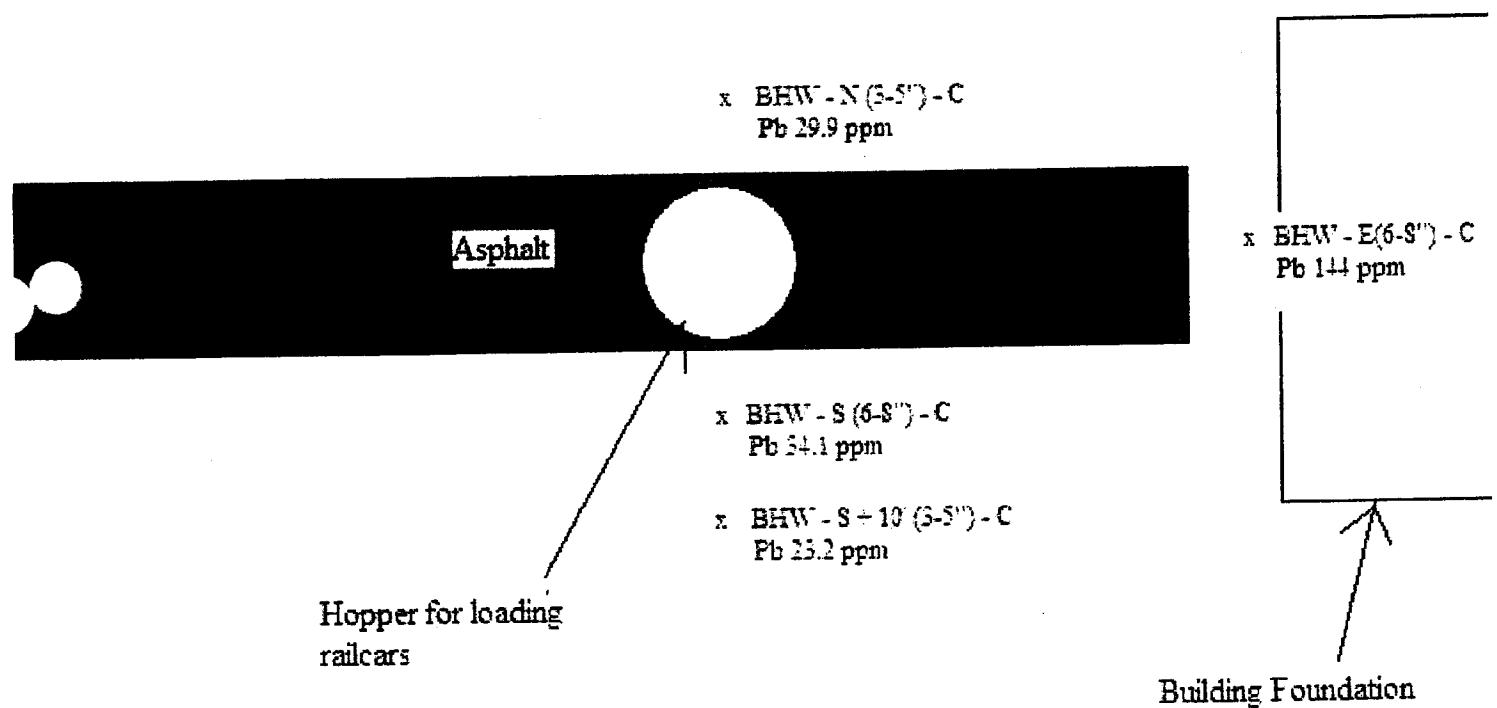
BHE-N-10 (3.5) : C
Pb 139 ppm AN BHE-N-10 (3.2)
Pb 3740 ppm

BHE-C (4-6°) C
Pb 200 ppm

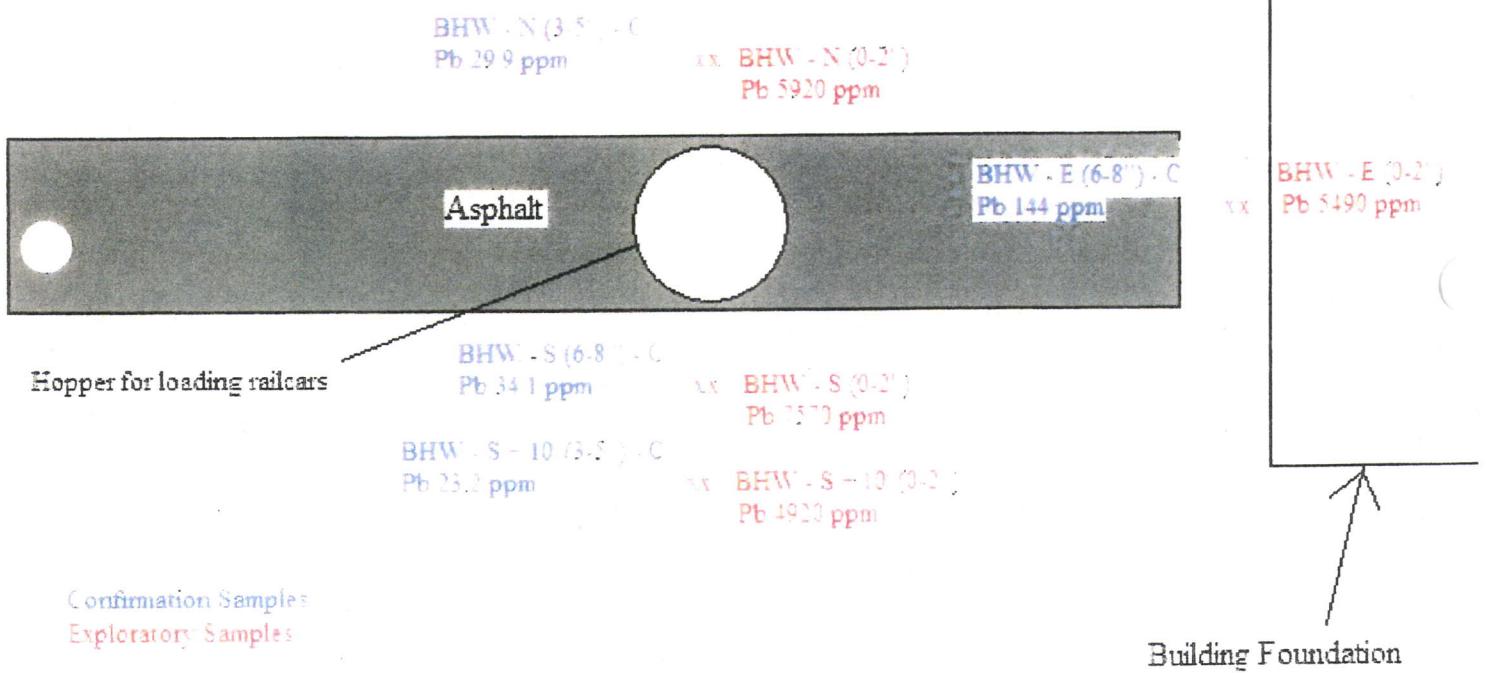
Hopper for loading railcars
BHE - S (3-5) - C
Pb 199 ppm ex. BHE - S (3-2)
Pb 6400 ppm

Confirmation Samples Exploratory Samples

SWMU 8 and 11
West Baghouse Hopper
Confirmation Sample Locations



SWMU 8 and 11
West Baghouse Hopper
Confirmation and Exploratory Sample Locations



Appendix D
Field Excavation and Sampling Notes

7/16/03

Personnel: Mike Fitz
JB Carter
Jesus Garcia

1030

Began excavation of lead impacted soils at SWMU 8 and 11 west baghouse. Started excavating on south side of asphalt directly below hopper for loading K061 just into trailers. Excavated from ~~southern~~ point south edge of asphalt south to rail road track. The first 10' south of asphalt removed surface soils down to 6". The next 10' back to railroad track removed top 3" soil.

Bagger SW
(0-2")

1 asphalt / 10' to Hopper / 1

excavated top 6" impacted

soil to clean

excavated top 3" impacted

soil to clean

Two confirmation samples collected south of asphalt to confirm clean soil

-921

samples from placed with 40% of 50%
of P.C. clay and kaolinite, then
3 and 5" then placed with 30%
kaolinite. Soil sample by hand broken
down 50% and contains streaks of loess
was observed by field methods to be
colluvial fine of (3-5) which were
broken at BH-5H0,60(2) only
Glycine (sample collected from same

⑥ 1115

BH-5H0(3-5)-C colluvial 7/16/63

of 50% of 50% of
samples from placed with 40% of
fines and kaolinite, then placed
with 30% kaolinite by hand broken
50% and contains streaks of
was observed by field methods to be
colluvial fine of (3-5) which were
broken at BH-5H0,60(2) only
Glycine (sample collected from same

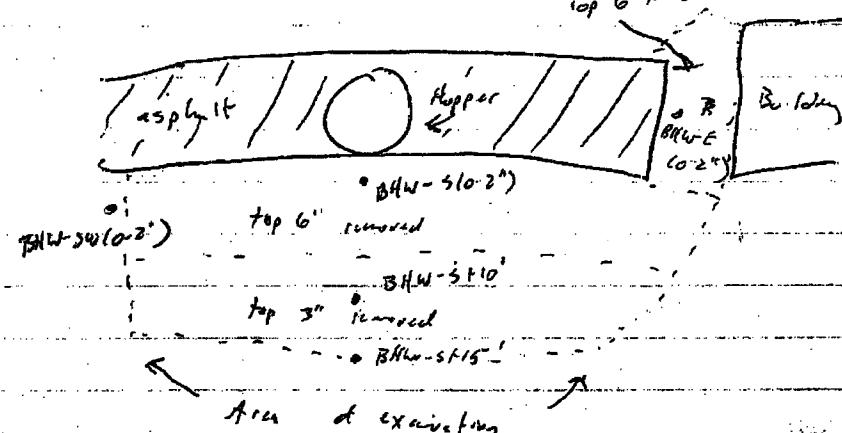
⑥ 1100

BH-5 (3-5)-C colluvial 7/16/63

Extent of excavation visible at asphalt

From west from sample BHW-SW (0-2")
to 20 back to railroad tracks and
then east to building foundations and
then in between asphalt and building on east.

top 6" removed



One cuttings sample collected
at BHW-E (6-8")

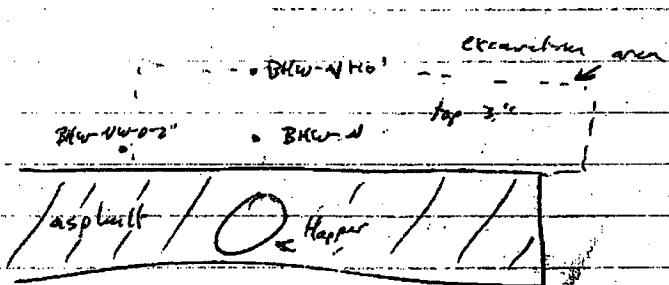
BHW-E (6-8") - C collected 7/16/03

1135

soil sample collected from same location
as BHW-E (0-2") only collected at (6-8") depth
which was observed by myself to be
clean soil and certain extent of leach deposit.
Soil collected by hand between 6-8" then
placed into disposable Al sic tray and

homogenized, homogenized soil then
placed into 4oz jar to go to lab.

Moved over to north side of
asphalt to examine. Shovelled
at BHw-N(0-2") then examined
top 3" 10' north to BHw-N(0-2")
then west to BHw-N(0-2") then
out to \odot foundation for blower.



BHW-N(3-5") - C 7/16/03 Q 1150
Carbonation soil sample collected
from same location as BHw-N(0-2")
only collected at (3-5") showing which
was observed by myself to be clean
soil and carbonate content at level
impacted. Soil collected by hand
between 3-5" by then placed into disposable
Al pic tray and homogenized. Homogenized
soil then placed into 4oz jar to go to lab.

excavated soils stockpiled on virginia
for loading onto trucks once we
have confirmatory sample results.

7/16/63

1300

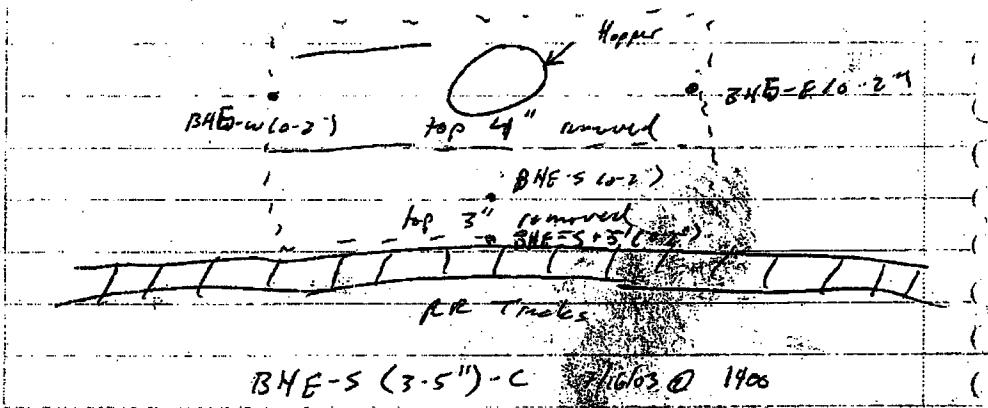
Began excavating at SWMU 8 and 11
east byhouse. Started at center
of SWMU and excavated surface
soils down to 4" by west to
sample point BHE-w(0-2") and east
to sample point BHE-E(0-2").

BHE-C (4-6") - c 7/16/63 @ 1330

One confirmation soil sample collected
from same location as BHE-C (0-2")
only collected at 4-6" interval which
was observed by myself to be clean
soil and confirm extent of impact.

Soil collected by hand between
4" and 6" bgs then stored into
disposable #1 pie tray and homogenized.
Homogenized soil then placed into
4 oz jar to go to lab.

Not we worked area south
of same approx. 10' to railroad
tracks. Top 3" of soil removed
from surface from sample point
BHE-W (0-2") south 10' then east
over to BHE-E (0-2").



BHE-S (3-5")-C 1603 0 1900

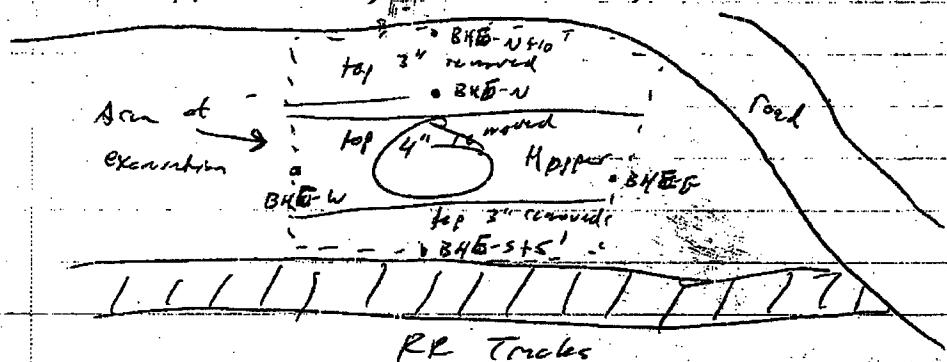
An environmental soil sample collected
from same location as BHE-S (0-2") only
collected at 3-5" interval which was
observed by myself to be clean soil
and certain extent to land report.

Soil collected by hand between 3-5" bags
then placed into disposable Al pie tray
and homogenized. Homogenized soil
then placed into 4 oz jar to
go to lab.

Finally, we excavated north of hopper.

We excavated from sample location
BH~~E~~-C (0-2') west to BH~~E~~-W (0-2'). Then
north 20' to road and across
going east to sample point

BH~~E~~-E (0-2") Excavated top 3" of soil.



BH-E-N 10' (3-5") - C 7/16/03 @ 1430

Our information soil sample collected
from same location as BH-E-N 10' (0-2")
only collected at 3-5" interval which
was observed by myself to be clean
soil and confirm extent of lead
exposure. Soil collected by hand
between 3-5" bgs then placed into
disposable Al pic tray and homogenized.
Homogenized soil then placed into
4 oz jar to go to lab.
FB-071603 collected from this location
for field QC. 7/16/03 @ 1440

All equipment swept clean in excavation area and PPE and sampling equipment disposed of in roll off.

Soil excavated and removed from both big houses mixed together and stockpiled on top of veggie for future disposal

Appendix E
Pace Analytical Lab Report (Confirmatory Samples)



Pace Analytical Services, Inc.
9903 Lavelle Blvd.
Lenexa, KS 66219
Phone: 913.599.5855
Fax: 913.599.7739

July 18, 2003

Mr. Mike Fritts
COMPASS/BIG BLUE
8116 Wilson Rd.
Kansas City, MO 64125

RE: Lab Project Number: 6072616
Client Project ID: COMPASS BIG BLUE

Dear Mr. Fritts:

Enclosed are the analytical results for sample(s) received by the laboratory on July 16, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report..

If you have any questions concerning this report please feel free to contact me.

Sincerely,

A handwritten signature of Adam Taylor.

Adam Taylor
adam.taylor@pacelabs.com
Project Manager

Kansas/NELAP Certification Number E-10116

Enclosures

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



Pace Analytical Services, Inc.
9608 Loriet Blvd.
Lenexa, KS 66219
Phone: 913.599.5865
Fax: 913.599.1759

SAMPLE SUMMARY

Lab Project Number: 6072616
Client Project ID: COMPASS BIG BLUE

Project Sample Number	Sample Number	Client Sample ID	Matrix	Date Collected	Date Received
6072616-001	606247955	BHW-S(6-8")-C	Soil	07/16/03 11:00	07/16/03 16:00
6072616-002	606247963	BHW-S+10(3-5")-C	Soil	07/16/03 11:15	07/16/03 16:00
6072616-003	606247971	BHW-E(6-8")-C	Soil	07/16/03 11:35	07/16/03 16:00
6072616-004	606247989	BHW-N(3-5")-C	Soil	07/16/03 11:50	07/16/03 16:00
6072616-005	606247997	BHE-C(4-6")-C	Soil	07/16/03 13:30	07/16/03 16:00
6072616-006	606248003	BHE-S(3-5")-C	Soil	07/16/03 14:00	07/16/03 16:00
6072616-007	606248011	BHE-N+10(3-5")-C	Soil	07/16/03 14:30	07/16/03 16:00
6072616-008	606248029	FB-071603	Soil	07/16/03 14:40	07/16/03 16:00

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



Pace Analytical Services, Inc.
9608 Loriet Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

SAMPLE ANALYTE COUNT

Lab Project Number: 6072616
Client Project ID: COMPASS BIG BLUE

Project	Sample Number	Sample No	Client Sample ID	Analysis Code	Analysis Description	Analytes Reported
6072616-001	606247955	BHW-S(6-8")-C		6010 SPAC	Metals-Standard ICP, Soil	2
6072616-002	606247963	BHW-S+10(3-5")-C		6010 SPAC	Metals-Standard ICP, Soil	2
6072616-003	606247971	BHW-R(6-8")-C		6010 SPAC	Metals-Standard ICP, Soil	2
6072616-004	606247989	BHW-N(3-5")-C		6010 SPAC	Metals-Standard ICP, Soil	2
6072616-005	606247997	BHE-C(4-6")-C		6010 SPAC	Metals-Standard ICP, Soil	2
6072616-006	606248003	BHE-S(3-5")-C		6010 SPAC	Metals-Standard ICP, Soil	2
6072616-007	606248011	BHE-N+10(3-5")-C		6010 SPAC	Metals-Standard ICP, Soil	2
6072616-008	606248029	FB-071603		6010 SPAC	Metals-Standard ICP, Soil	2

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



Pace Analytical Services, Inc.
9608 Loriet Blvd.
Lenexa, KS 66219
Phone: 913.599.5065
Fax: 913.599.1759

Lab Project Number: 6072616
Client Project ID: COMPASS BIG BLUE

Solid results are reported on a wet weight basis

Lab Sample No: 606247955 Project Sample Number: 6072616-001 Date Collected: 07/16/03 11:00
Client Sample ID: BHW-S(6-8*)-C Matrix: Soil Data Received: 07/16/03 16:00

Parameters	Results	Units	Report Limit	DF	Analyzed By	CAS No.	Qual	Req/Lmt
Metals								
Metals-Standard ICP, Soil	Prep/Method: EPA 3050 / EPA 6010							
Lead	34.1	mg/kg	4.39	0.9	07/17/03	JAH	7439-92-1	
Date Digested	07/17/03				07/17/03			

Date: 07/18/03

Page: 1 of 11

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



Pace Analytical Services, Inc.
9608 Loriet Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6072616
Client Project ID: COMPASS BIG BLUE

Lab Sample No: 606247963 Project Sample Number: 6072616-002 Date Collected: 07/16/03 11:15
Client Sample ID: BHW-S+10(3-5")-C Matrix: Soil Date Received: 07/16/03 16:00

Parameters	Results	Units	Report Limit	DF	Analyzed By	CAS No.	Qual	Reqdmt
Metals								
Metals-Standard ICP, Soil	Prep/Method: EPA 3050 / EPA 6010							
Lead	23.2	mg/kg	4.63	0.9	07/17/03	JAH	7439-92-1	
Date Digested	07/17/03				07/17/03			

Date: 07/18/03

Page: 2 of 11

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



Pace Analytical Services, Inc.
9508 Lorie Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6072616
Client Project ID: COMPASS.BIG.BLUE

Lab Sample No: 606247971	Project Sample Number: 6072616-003	Date Collected: 07/16/03 11:35
Client Sample ID: BEW-E(6-8")-C	Matrix: Soil	Date Received: 07/16/03 16:00

Parameters	Results	Units	Report Limit	DF	Analyzed By	CAS No.	Qual	Reg/Int
Metals								
Metals-Standard ICP, Soil	Prep/Method: EPA 3050 / EPA 6010							
Lead	144.	mg/kg	4.72	0.9	07/17/03	JAH	7439-92-1	
Date Digested	07/17/03				07/17/03			

Date: 07/18/03

Page: 3 of 11

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



Pace Analytical Services, Inc.
9608 Loret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1789

Lab Project Number: 6072616
Client Project ID: COMPASS BIG BLUE

Lab Sample No: 606247989 Project Sample Number: 6072616-004 Date Collected: 07/16/03 11:50
Client Sample ID: BBW-N(3-5")-C Matrix: Soil Date Received: 07/16/03 16:00

Parameters	Results	Units	Report Limit	DF	Analyzed By	CAS No.	Qual	RegLmt
Metals								
Metals-Standard ICP, Soil	Prep/Method: EPA 3050 / EPA 6010							
Lead	29.9	mg/kg	5.00	1.0	07/17/03	JAH	7439-92-1	
Date Digested	07/17/03				07/17/03			

Date: 07/18/03

Page: 4 of 11

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



Pace Analytical Services, Inc.
9608 Loriet Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6072616
Client Project ID: COMPASS BIG BLUE

Lab Sample No: 606247997 Project Sample Number: 6072616-005 Date Collected: 07/16/03 13:30
Client Sample ID: BHE-C(4-6")-C Matrix: Soil Data Received: 07/16/03 16:00

Parameters	Results	Units	Report Limit	DF	Analyzed By	CAS No.	Qual	RegLmt
Metals								
Metals-Standard ICF, Soil	Prep/Method: EPA 3050 / EPA 6010							
Lead	200.	mg/kg	4.63	0.9	07/17/03	JAH	7439-92-1	
Date Digested	07/17/03				07/17/03			

Date: 07/18/03

Page: 5 of 11

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



Pace Analytical Services, Inc.
9608 Larlet Blvd.
Lenexa, KS 66219
Phone: 913.599.5865
Fax: 913.599.1759

Lab Project Number: 6072616
Client Project ID: COMPASS BIG BLUE

Lab Sample No: 606248003 Project Sample Number: 6072616-006 Date Collected: 07/16/03 14:00
Client Sample ID: BHE-S(3-5")-C Matrix: Soil Date Received: 07/16/03 16:00

Parameters	Results	Units	Report Limit	DF	Analyzed By	CAS No.	Qual	RegLmt
Metals								
Metals-Standard ICP, Soil	Prep/Method: EPA 3050 / EPA 6010							
Lead	199.	mg/kg	4.55	0.9	07/18/03	JAH	7439-92-1	
Date Digested	07/17/03				07/17/03			

Date: 07/18/03

Page: 6 of 11

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



Pace Analytical Services, Inc.
9608 Loriet Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax 913.599.1759

Lab Project Number: 6072616
Client Project ID: COMPASS BIG BLUE

Lab Sample No: 606248011 Project Sample Number: 6072616-007 Date Collected: 07/16/03 14:30
Client Sample ID: BHE-N+10(3-5") -C Matrix: Soil Date Received: 07/16/03 16:00

Parameters	Results	Units	Report Limit	DP	Analyzed By	CAS No.	Qual.	ReqLmt
Metals								
Metals-Standard ICP, Soil	Prep/Method: EPA 3050 / EPA 6010							
Lead	139.	mg/kg	4.55	0.9	07/18/03	JAH	7439-92-1	
Date Digested	07/17/03				07/17/03			

Date: 07/18/03

Page: 7 of 11

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



Pace Analytical Services, Inc.
9608 Lorlet Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6072616
Client Project ID: COMPASS-BIG BLUE

Lab Sample No: 606248029 Project Sample Number: 6072616-008 Date Collected: 07/16/03 14:40
Client Sample ID: FB-071603 Matrix: Soil Date Received: 07/16/03 16:00

Parameters	Results	Units	Report Limit	DF	Analyzed By	CAS No.	Dual RegImnt
Metals							
Metals-Standard ICP, Soil	Prep/Method: EPA 3050 / EPA 6010						
Lead	149	mg/kg	4.20	0.8	07/18/03	JAH	7439-92-1
Date Digested	07/17/03				07/17/03		

Date: 07/16/03

Page: 8 of 11

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



Pace Analytical Services, Inc.
9608 Lariat Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6072616
Client Project ID: COMPASS BIG BLUE

PARAMETER FOOTNOTES

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



Pace Analytical Services, Inc.
9608 Loriet Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

QUALITY CONTROL DATA

Lab Project Number: 6072616
Client Project ID: COMPASS BIG BLUE

QC Batch: 149106	Analysis Method: EPA 6010				
QC Batch Method: EPA 3050	Analysis Description: Metals-Standard ICP, Soil				
Associated Lab Samples:	606247955	606247963	606247971	606247989	606247997
	606248003	606248011	606248029		

METHOD BLANK: 606248094	606247955	606247963	606247971	606247989	606247997	606248003	606248011
Associated Lab Samples:	606248029						

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Lead	mg/kg	ND	4.50	

LABORATORY CONTROL SAMPLE: 606248102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec	Limits	Footnotes
Lead	mg/kg	95.24	93.74	98	80-120		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 606248110 606248128

Parameter	Units	606247955 Result	Spike Conc.	MS Result	MSD	MS Result	MSD	% Rec % Rec	Max	RFD	RFD	Footnotes
Lead	mg/kg	34.09	85.47	127.8	107.3	110	83	75-125 17	20			

Date: 07/18/03

Page: 10 of 11

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



Pace Analytical Services, Inc.
9808 Loriet Blvd.
Lenexa, KS 66219
Phone: 913.599.5665.
Fax: 913.599.1759

Lab Project Number: 6072615
Client Project ID: COMPASS-BIG BLUE

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D) Laboratory Control Sample (Duplicate)
MS(D) Matrix Spike (Duplicate)
DUP Sample Duplicate
ND Not detected at or above adjusted reporting limit
NC Not Calculable
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL Adjusted Method Detection Limit
RPD Relative Percent Difference

Date: 07/18/03

Page: 11 of 11

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services Inc



www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a **LEGAL DOCUMENT**. All relevant fields must be completed accurately.

773704

Required Client Information: Section A

Company	Compass Big Blue	
Address	8116 W. 16th St. Kingsland, TX 76425	
Phone	(816) 241-7300	Fax (816) 241-7304
Project Name:	Compass Big Blue	
Project Number:		

Required Client Information: Section B

Report To: Mike Fritz

Copy To:

Invoice To: Maricela Perez

P.O.

Project Name: Compass Big Blue

Page: 1 of 1

To Be Completed by Pace Analytical and Client Section C

Quote Reference:

Project Manager:

Project #: _____

Profile #: _____

Requested Analysis:

Total Load (kg)

Remarks / Lab ID

Section D Required Client Information:

SAMPLE ID

One character per box.
(A-Z, 0-9, -)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes	
MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

MATRIX CODE

ITEM #	SAMPLE ID	DATE COLLECTED	TIME COLLECTED	Preservatives							Remarks / Lab ID	
				# Containers	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃		
1	BHW-S(6-8")-C	7/16/03	1100	1								
2	BHW-S(10"(3+5"))-C		1115									
3	BHW-E(6-8")-C		1135									
4	BHW-N(3+5")-C		1150									
5	BHE-C(4-6")-C		1330									
6	BHE-S(3+5")-C		1400									
7	BHE-N(10"(3+5"))-C		1430									
8	FB-O71603		1440	4								
9												
10												
11												
12												

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
					718	7/16/03	1605	Jeff OH	7/16/03	1600

SAMPLE CONDITION

SAMPLE NOTES

Temp in °C	
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N
Additional Co	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: P

'Y'

Appendix F
Pace Analytical Lab Report (Composite of Lead Impacted Surface Soil)



Pace Analytical Services, Inc.
9500 Lariat Blvd.
Omaha, NE 68119
Phone: 913.999.5665
Fax: 913.999.1753

July 14, 2003

Mr. Mike Fritz
COMPASS/HIGH BLUE
8116 Wilson Rd.
Kansas City, MO 64125

RE: Lab Project Number: 6072335
Client Project ID: SWAU 8-11

Dear Mr. Fritz:

Enclosed are the analytical results for sample(s) received by the laboratory on July 9, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Adam Taylor

Adam Taylor
adam.taylor@pacelabs.com
Project Manager

Kansas/NELAP Certification Number B-10116

Enclosures

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



SAMPLE SUMMARY

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6072335
Client Project ID: SWMU 8-11

Project	Sample					
Sample Number	Number	Client Sample ID	Matrix	Date Collected	Date Received	
6072335-001	606223873	SWMU 8-11	Soil	07/09/03 10:00	07/09/03 11:10	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.





SAMPLE ANALYTE COUNT

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Leavenwa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6072335
Client Project ID: SWMU 8-11

Project	Analysis	Analytes			
Sample Number	Sample No	Client Sample ID	Code	Analysis Description	Reported
6072335-001	606223873	SWMU 8-11	6010S LEPA	RCRA Metals, ICP, TCLP	9
			7470S LEPA	Mercury, CVAAS, TCLP	1

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.





Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6072335
Client Project ID: SWMU 8-11

Solid results are reported on a wet weight basis

Lab Sample No: 606223873	Project Sample Number: 6072335-001	Date Collected: 07/09/03 10:00
Client Sample ID: SWMU 8-11	Matrix: Soil	Date Received: 07/09/03 11:10

Parameters	Results	Units	Report Limit	DF	Analyzed By	CAS No.	Qual	RegLmt
Metals								
RCRA Metals, ICP, TCLP	Method: EPA 1311							
Date Extracted	07/09/03				07/09/03			
RCRA Metals, ICP, TCLP	Prep/Method: EPA 3010 / EPA 6010							
Arsenic	ND	ug/l	850.	10.0	07/11/03	JAH 7440-38-2		5000
Barium	676.	ug/l	200.	10.0	07/11/03	JAH 7440-39-3		100000
Cadmium	479.	ug/l	50.0	10.0	07/11/03	JAH 7440-43-9		1000
Chromium	104.	ug/l	100.	10.0	07/11/03	JAH 7440-47-3		5000
Lead	1670	ug/l	500.	10.0	07/11/03	JAH 7439-92-1		5000
Selenium	ND	ug/l	500.	10.0	07/11/03	JAH 7782-49-2		1000
Silver	ND	ug/l	100.	10.0	07/11/03	JAH 7440-22-4		5000
Date Digested	07/10/03				07/10/03			
Mercury, CVAAS, TCLP	Method: EPA 7470							
Mercury	ND	ug/l	2.00	1.0	07/11/03 17:20 SYW	7439-97-6		200

Date: 07/14/03

Page: 1 of 6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



Lab Project Number: 6072335
Client Project ID: SWMU 8-11

PARAMETER FOOTNOTES

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

- ND Not detected at or above adjusted reporting limit
- NC Not Calculable
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
- MDL Adjusted Method Detection Limit

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.





www.pacelabs.com

QUALITY CONTROL DATA

Pace Analytical Services, Inc.

9608 Loiret Blvd.

Lenexa, KS 66219

Phone: 913 599.5665

Fax: 913.599.1759

Lab Project Number: 6072335

Client Project ID: SWMU 8-11

QC Batch: 148730

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: Mercury, CVAAS, TCLP

Associated Lab Samples: 606223873

METHOD BLANK: 606231082

Associated Lab Samples: 606223873

Parameter	Units	Blank		Reporting	
		Result	Limit	Footnotes	
Mercury	ug/l	ND	2.00		

LABORATORY CONTROL SAMPLE: 606231090

Parameter	Units	Spike	LCS	LCS	% Rec		
		Conc.	Result	% Rec	Limits	Footnotes	
Mercury	ug/l	15.00	12.08	80	80-120		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 606231108 606231116

Parameter	Units	104648340	Spike	MS	MSD	MS	MSD	% Rec	Max		
		Result	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Footnotes
Mercury	ug/l	0.03876	15.00	15.67	15.69	104	104	75-125	0	20	

Date: 07/14/03

Page: 3 of 6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



QUALITY CONTROL DATA

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913 599 1759

Lab Project Number: 6072335
Client Project ID: SWMU 8-11

QC Batch: 148668	Analysis Method: EPA 6010
QC Batch Method: EPA 3010	Analysis Description: RCRA Metals, ICP, TCLP
Associated Lab Samples:	606223873

METHOD BLANK: 606227395
Associated Lab Samples: 606223873

Parameter	Units	Blank		Reporting	
		Result	Limit	Footnotes	
Arsenic	ug/l	ND	850.		
Barium	ug/l	ND	400.		
Cadmium	ug/l	ND	50.0		
Chromium	ug/l	ND	100.		
Lead	ug/l	ND	500.		
Selenium	ug/l	ND	500.		
Silver	ug/l	ND	100.		

LABORATORY CONTROL SAMPLE: 606227403

Parameter	Units	Spike	LCS	LCS	% Rec	Limits	Footnotes
		Conc.	Result	% Rec			
Arsenic	ug/l	1000.00	1062	106	80-120		
Barium	ug/l	1000.00	1013	101	80-120		
Cadmium	ug/l	100.00	103.7	104	80-120		
Chromium	ug/l	1000.00	1005	101	80-120		
Lead	ug/l	1000.00	970.9	97	80-120		
Selenium	ug/l	1000.00	1230	123	80-120	1	
Silver	ug/l	100.00	107.3	107	80-120		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 606227411 606227429

Parameter	Units	104656418	Spike	MS	MSD	MS	MSD	% Rec	Max	Limits	RPD	RPD	Footnotes
		Result	Conc.	Result	Result	% Rec	% Rec						
Arsenic	ug/l	0	1000.00	922.7	1008	92	101	75-125	9	20			
Barium	ug/l	135.6	1000.00	1039	1100	90	96	75-125	6	20			
Cadmium	ug/l	0	100.00	98.47	97.55	90	98	75-125	8	20			
Chromium	ug/l	23.01	1000.00	918.6	998.9	90	98	75-125	8	20			
Lead	ug/l	30.89	1000.00	922.1	995.6	89	96	75-125	8	20			

Date: 07/14/03

Page: 4 of 6

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc



QUALITY CONTROL DATA

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6072335
Client Project ID: SWMU 8-11

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 606227411 606227429

<u>Parameter</u>	<u>Units</u>	104656418		Spike	MS	MSD	MS	MSD	% Rec	Max	<u>Footnotes</u>
		<u>Result</u>	<u>Conc.</u>	<u>Result</u>	<u>Result</u>	<u>% Rec</u>	<u>% Rec</u>	<u>Limits</u>	<u>RPD</u>	<u>RPD</u>	
Selenium	ug/l	34.51	1000.00	974.3	1062	94	103	75-125	9	20	
Silver	ug/l	4.690	100.00	92.87	96.34	88	92	75-125	4	20	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



Lab Project Number: 6072335
Client Project ID: SWMDF 8-II

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

- LCS(D) Laboratory Control Sample (Duplicate)
MS(D) Matrix Spike (Duplicate)
DUP Sample Duplicate
ND Not detected at or above adjusted reporting limit
NC Not Calculable
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL Adjusted Method Detection Limit
RPD Relative Percent Difference
[1] The compound recovery exceeds the laboratory generated acceptance limits; however, the compound recovery shall be allowed to be outside the acceptance limits without corrective action provided the recovery was greater than or equal to 10% and the compound was not detected above the reporting limit for the associated samples.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced except in full,
without the written consent of Pace Analytical Services, Inc.





CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

773703

Required Client Information:		Section A		Section B		Page: 1 of 1		773703			
Company Compass B.I. Blue		Report To: Mike Fris		Client Information (Check quote/contract):		To Be Completed by Pace Analytical and Client		Section C			
Address 8116 W. 15th St		Copy To: Invoice To: N/A		Requested Due Date: 7/19/03 TAT: 4 calendar days Monday July 14, 2003		Quote Reference:					
Knoxville, TN 37901		P.O. #		Turn around times less than 14 days subject to labor and contractual obligations and may result in a Rush Turnaround Surcharge.		Project Manager:					
Phone (816) 241-7300 Fax (816) 241-7304		Project Name: Environmental Testing Services		Term Around Time (TAT) in calendar days:		Project #: 6077335					
ITEM #		Section D Required Client Information:		Preservatives		Profile #: 606273873					
		SAMPLE ID		MATRIX CODES		Requested Analysis:					
		One character per box. (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE		WATER WT SOIL SL OIL OL WIPE WP AIR AR TISSUE TS OTHER OT		DATE COLLECTED mm / dd / yy		TIME COLLECTED hh: mm a/p			
1				SL 7/19/03		1000		# Containers			
2		SLUM 4						Unpreserved			
3								H ₂ SO ₄			
4								HNO ₃			
5								HCl			
6								NaOH			
7								Na ₂ S ₂ O ₃			
8								Methanol			
9								Other			
10											
11											
12											
SHIPMENT METHOD		AIRBILL NO.		SHIPPING DATE		NO. OF COOLERS		RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION	
								DATE 7/19/03		TIME 11:00	
SAMPLE CONDITION		SAMPLE NOTES						DATE 7/19/03		TIME 11:00	
Temp in °C 41											
Received on Ice Y/N											
Sealed Cooler Y/N											
Samples Intact Y/N											
Additional Comments								SAMPLER NAME AND SIGNATURE			
								PRINT Name of SAMPLER: Mike Fris			
								SIGNATURE of SAMPLER: <i>Mike Fris</i>			
								DATE Signed: 7/19/03		DD/MM	

Appendix G
Waste Manifests

JOHNSON COUNTY LANDFILL, INC.
 PO BOX 3220
 SHAWNEE, KANSAS 66203
 (913)631-8181

Truck #:PEAC-37
 Bill Acct:657
 Company:COMPASS BIG BLUE
 Ticket# 158149

Transaction: 4 - Outside Charges
 Payment: 1 - Charge
 Origin: 340 - CONTAM. SOIL
 Vehicle: 90 - Dump/Straight (>18')
 Material: 20 - Special Waste
 Route: 9999 - Not Applicable
 Author #: 03-210
 PO Number:
 Job Number:
 Reference: OLD GST STEEL PLANT 12:05PM TOM PEACE

	In	Out
Date	10/03/03	10/03/03
ID	MRS	MRS
Gross	139180	69.59 1
Tare	33400	16.70 (K)
Net	105780	52.89

Tip Fee: 952.02 @ \$18.00/tn
 Special Fee: 18.51 @ FU-1
 ----- 1 - Fuel Surcharge
 Total Fee: \$970.53
 =====

Driver: Tom J Scale Operator: MARK SCHROEPP

MONARCH INDUSTRIES / OVERLAND PARK KS 66202 / 913-262-4505

Mike Frito 816 806 0543

SPECIAL WASTE MANIFEST DISPOSAL TICKET

JOHNSON COUNTY LANDFILL
 17955 HOLIDAY DRIVE
 SHAWNEE, KS 66217
 DISPOSAL SITE

TICKET# 158149

STATE# 03210

DATE: 10/3/03

TRANSPORTER: Tom Peace Trucking

GENERATOR: Compass Big Blue

GENERATOR'S SIGNATURE: 713

CONTRACTOR & SIGNATURE: Compass Environmental Inc 10/3/03

WASTE DESCRIPTION: Lead contaminated soil

QUANTITY 105780 BOOK LOCATION _____

ACCEPTED BY: MPJ TIME: 1/1 TRUCK NO. 37

DRIVER'S SIGNATURE: Tom Peace DATE 10/3/03 BOX NO. _____ TONS/YARDS _____

JOHNSON COUNTY LANDFILL, INC.
PO BOX 3220
SHAWNEE, KANSAS 66203
(913)631-8181

Truck #: PEAC-56
Bill Acct: 657
Company: COMPASS BIG BLUE

Ticket# 158159

Transaction: 4 - Outside Charges

In	Out
Date 10/03/03	10/03/03
ID MRS	MRS

Payment: 1 - Charge

Origin: 340 - CONTAM. SOIL

Vehicle: 150 - Trailers (over 18')

Material: 20 - Special Waste

Route: 9999 - Not Applicable

Author #: 03-210

PO Number:

Job Number:

Reference: OLD GST STEEL PLANT 12:10PM

Lbs	Tons
Gross 149580	74.79 1
Tare 33280	16.64 (K)
Net 116300	58.15

Tip Fee: 1046.70 @ \$18.00/tn

Special Fee: 20.35 @ Fu-1

----- 1 - Fuel Surcharge

Total Fee: \$1067.05

Driver: Alain #56

Scale Operator: MARK SCHROEPP

MONARCH INDUSTRIES / OVERLAND PARK KS 66202 / 913-262-4505

JOHNSON COUNTY LANDFILL,
17955 HOLIDAY DRIVE
SHAWNEE, KS 66217
DISPOSAL SITE

158159
TICKET #
STATE # 03210

SPECIAL WASTE MANIFEST DISPOSAL TICKET

DATE: 10/3/03

TRANSPORTER: Compass Big Blue Trucking

GENERATOR: Compass Big Blue

GENERATOR'S SIGNATURE: JYB

CONTRACTOR & SIGNATURE: Compass Environmental Inc. DATE 10/3/03

WASTE DESCRIPTION: Lead contaminated soil

JANTITY 116300 BOOK LOCATION _____

ACCEPTED BY: MPS TIME: 1:1 TRUCK NO. 56

DRIVER'S SIGNATURE: Alain Pen DATE 10/3/03 BOX NO. _____ TONS/YARDS _____

JOHNSON COUNTY LANDFILL, INC.
PO BOX 3220
SHAWNEE, KANSAS 66203
(913)631-8181

Truck #:PEAC-37
Bill Acct:657
Company:COMPASS BIG BLUE

Ticket# 158310

Transaction: 4 - Outside Charges

In	Out
Date 10/03/03	10/03/03
ID MRS	MRS

Payment: 1 - Charge

Origin: 340 - CONTAM. SOIL

Vehicle: 90 - Dump/Straight (>18')

Material: 20 - Special Waste

Route: 9999 - Not Applicable

Author.#: 03-210

PO Number:

Job Number:

Reference: OLD GST STRRL PLANT 2:07PM TOM PEACE

Lbs	Tons
Gross 130300	65.15 1
Tare 33400	16.70 (K)
Net 96900	48.45

Tip Fee: 872.10 @ \$18.00/tn
Special Fee: 16.96 @ Fu-1

1 - Fuel Surcharge

Total Fee: \$889.06

Driver: Tom 37 Scale Operator: MARK SCHROEPP

MONARCH INDUSTRIES / OVERLAND PARK, KS 66202 / 913-262-4505

(3)

SPECIAL WASTE MANIFEST DISPOSAL TICKET

JOHNSON COUNTY LANDFILL
17955 HOLIDAY DRIVE
SHAWNEE, KS 66217
DISPOSAL SITE

TICKET # 3158310

STATE # 03-210

DATE: 10-3-03

TRANSPORTER: Peace Trk Co

GENERATOR: Compass Big Blue

GENERATOR'S SIGNATURE: 37

CONTRACTOR & SIGNATURE: Compass Environmental 10/03/03

DATE

WASTE DESCRIPTION: Lead Contam. Soil

QUANTITY 96900

BOOK LOCATION

ACCEPTED BY: Tom Peace TIME: 1 TRUCK NO. 37

DRIVER'S SIGNATURE: Tom Peace DATE 10/3/03 BOX NO. _____ TONS/YARDS

JOHNSON COUNTY LANDFILL, INC.
 PO BOX 3220
 SHAWNEE, KANSAS 66203
 (913)631-8181

Truck #:PEAC-56

Bill Acct:657

Company:COMPASS BIG BLUE

Ticket# 158333

Transaction: 4 - Outside Charges

	In	Out
Date	10/03/03	10/03/03
ID	MRS	MRS

Payment: 1 - Charge

Origin: 340 - CONTAM. SOIL

Vehicle: 150 - Trailers (over 18')

Material: 20 - Special Waste

Route: 9999 - Not Applicable

Author.#: 03-210

PO Number:

Job Number:

Reference: OLD GST STEEL PLANT 2:24PM ALAN PEACE

	Lbs	Tons
Gross	122040	61.02 MAN WT
Tare	33280	16.64 (K)
Net	88760	44.38

Tip Fee: 798.84 @ \$18.00/tn

Special Fee: 15.53 @ Fu-1

----- 1 - Fuel Surcharge

Total Fee: \$814.37

=====

Driver: Heen #57

Scale Operator: MARK SCHROEPP

MONARCH INDUSTRIES / OVERLAND PARK, KS 66202 / 913-262-4505

SPECIAL WASTE MANIFEST DISPOSAL TICKET

TICKET# 158333

STATE# 03210

JOHNSON COUNTY LANDFILL
 17955 HOLIDAY DRIVE
 SHAWNEE, KS 66217
 DISPOSAL SITE

DATE: 10/3/03

TRANSPORTER: Tom Peace

GENERATOR: 713 COMPASS B3 Blue

GENERATOR'S SIGNATURE: 713

CONTRACTOR & SIGNATURE: Compass Environmental 713 10/3/03

WASTE DESCRIPTION: Lead contaminated soil

QUANTITY 88760 BOOK LOCATION _____

ACCEPTED BY: MD TIME: 1 1 TRUCK NO. 57

DRIVER'S SIGNATURE: Alan Peac DATE 10/3/03 BOX NO. _____ TONS/YARDS _____

JOHNSON COUNTY LANDFILL, INC.
 PO BOX 3220
 SHAWNEE, KANSAS 66203
 (913) 631-8181

Truck #: PEAC-39

Bill Acctr: 657

Company: COMPASS BIG BLUE

Ticket# 158407

Transaction: 4 - Outside Charges

	In	Out
Date	10/03/03	10/03/03
ID	TM	TM

Payment: 1 - Charge

Origin: 340 - CONTAM. SOIL

Vehicle: 90 - Dump/Straight (>18')

Material: 20 - Special Waste

Route: 9999 - Not Applicable

Author.#: 03-210

PO Number:

Job Number:

Reference: AGS 349 PM

	Lbs	Tons
Gross	104760	52.38 1
Tare	33060	16.53 (K)
Net	71700	35.85

Tip Fee: 645.30 @ \$18.00/tn

Special Fee: 12.55 @ Fu-1

----- 1 - Fuel Surcharge

Total Fee: \$657.85

Driver: John Peace

Scale Operator: Tim McMullan

MONARCH INDUSTRIES / OVERLAND PARK, KS 66202 / 913-262-4505

SPECIAL WASTE MANIFEST DISPOSAL TICKET

JOHNSON COUNTY LANDFILL
 17955 HOLIDAY DRIVE
 SHAWNEE, KS 66217
 DISPOSAL SITE

158407
 TICKET# 5

STATE# 03210

DATE: 10/31/03

TRANSPORTER: Tom Peace Trucking

GENERATOR: Compass Big Blue

GENERATOR'S SIGNATURE: mtb

CONTRACTOR & SIGNATURE: Compass Environmental Inc. mtb 10/31/03

WASTE DESCRIPTION: Lead contaminated soil

JANTITY 71,080 LB. / 71700 BOOK LOCATION

ACCEPTED BY: P TIME: 3:50PM, TRUCK NO. 39

DRIVER'S SIGNATURE: John Peace DATE: 10/31/03 BOX NO. 47 TONS/YARDS

JOHNSON COUNTY LANDFILL, INC.
PO BOX 3220
SHAWNEE, KANSAS 66203
(913)631-8181

Truck #:PEAC~37
Bill Acct:657
Company:COMPASS BIG BLUE

Ticket# 158440

Transaction: 4 - Outside Charges
Payment: 1 - Charge
Origin: 340 - CONTAM. SOIL
Vehicle: 90 - Dump/Straight (>18')
Material: 20 - Special Waste
Route: 9999 - Not Applicable
Author.#: 03-210
PO Number:
Job Number:
Reference: OLD GST STEEL PLANT 4:27PM TOM PEACE

	In	Out
Date	10/03/03	10/03/03
ID	MRS	MRS
Lbs		
Gross	134400	67.20 MAN WT
Tare	33400	16.70 (K)
Net	101000	50.50

Tip Fee: 909.00 @ \$18.00/tn
Special Fee: 17.68 @ Fu-1
----- 1 - Fuel Surcharge
Total Fee: \$926.68

Driver: Tom 37 Scale Operator: MARK SCHROEPP

MONARCH INDUSTRIES / OVERLAND PARK, KS 66202 / 913-282-4505

JOHNSON COUNTY LANDFILL
17955 HOLIDAY DRIVE
SHAWNEE, KS 66217
DISPOSAL SITE

DATE: 10/3/03

TRANSPORTER: Tom Peace Trucking

GENERATOR: Compass B.g Blue

GENERATOR'S SIGNATURE: TKB

CONTRACTOR & SIGNATURE: Corpsis Environments / 10/3/03

DATE

WASTE DESCRIPTION: Lead Contaminated Soil

JANTITY 100000 BOOK LOCATION

ACCEPTED BY: MP TIME: 1:1 TRUCK NO. 37

DRIVER'S SIGNATURE: Tom Peace DATE: 10/03/03 BOX NO. 5043 TONS/YARDS

JOHNSON COUNTY LANDFILL, INC.
PO BOX 3220
SHAWNEE, KANSAS 66203
(913)631-8181

Truck #:PEAC-40

Bill Acct:657

Company:COMPASS BIG BLUE

Ticket# 158433

Transaction: 1 - Intercompany Roll Off

	In	Out
Date	10/03/03	10/03/03
ID	TM	TM

Payment: 1 - Charge

Origin: 340 - CONTAM. SOIL

Vehicle: 150 - Trailers (over 18')

Material: 20 - Special Waste

Reference: 423 PM

PO Number:

Author #: 03-210

	Lbs	Tons
Gross	99220	49.61 1
Tare	33180	16.59 (K)
Net	66040	33.02

Tip Fee: 594.36 @ \$18.00/tn

Special Fee: 11.56 @ Fu-1

1 - Fuel Surcharge

Total Fee: \$605.92

Tendered: 0.00 Change: 0.00

Driver:

Scale Operator:Tim McMullan

MONARCH INDUSTRIES / OVERLAND PARK KS 66202 / 913-262-4505

SPECIAL WASTE MANIFEST DISPOSAL TICKET

JOHNSON COUNTY LANDFILL
17955 HOLIDAY DRIVE
SHAWNEE, KS 66217
DISPOSAL SITE

TICKET # 158433

STATE # 03210

DATE: 10/3/03

TRANSPORTER: Tom Peace Trucking

657

GENERATOR: Compass Big Blue

GENERATOR'S SIGNATURE: 775

CONTRACTOR & SIGNATURE: Compass Environmental Inc DATE 10/3/03

WASTE DESCRIPTION: Lead contaminated So-1

QUANTITY 65,640 LB BOOK LOCATION 101040

ACCEPTED BY: W TIME: 4:23PM TRUCK NO. 5640

DRIVER'S SIGNATURE: W DATE 10/3/03 BOX NO. 46 TONS/YARDS 32.82

JOHNSON COUNTY LANDFILL, INC.
PO BOX 3220
SHAWNEE, KANSAS 66203
(913)631-8181

Truck #:PEAC-56
Bill Acct:657
Company:COMPASS BIG BLUE

Ticket# 158450

Transaction: 4 - Outside Charges

	In	Out
Date	10/03/03	10/03/03
ID	MRS	MRS

Payment: 1 - Charge

Origin: 340 - CONTAM. SOIL

Vehicle: 150 - Trailers (over 18')

Material: 20 - Special Waste

Route: 9999 - Not Applicable

Author.#: 03-210

PO Number:

Job Number:

Reference: OLD GST STEEL PLANT 4:37PM ALAN PEACE

	Lbs	Tons
Gross	133540	66.77 MAN WT
Tare	33280	16.64 (K)
Net	100260	50.13

Tip Fee: 902.34 @ \$18.00/tn

Special Fee: 17.55 @ Fu-1

----- 1 - Fuel Surcharge

Total Fee: \$919.89

Driver: Alan P

Scale Operator: MARK SCHROEPP

MONARCH INDUSTRIES / OVERLAND PARK, KS 66202 / 913-262-4505

JOHNSON COUNTY LANDFILL
17955 HOLIDAY DRIVE
SHAWNEE, KS 66217
DISPOSAL SITE

DATE: 10/3/03

TRANSPORTER: Tom Peace Touchong

GENERATOR: Compass Big Blue

GENERATOR'S SIGNATURE: TK

CONTRACTOR & SIGNATURE: Compass Environmental 10/3/03

WASTE DESCRIPTION: Lead contaminated soil

QUANTITY 100260 BOOK LOCATION _____

ACCEPTED BY: MT TIME: 1:1 TRUCK NO. 56

DRIVER'S SIGNATURE: Alan Pe DATE: 10/3/03 BOX NO. _____ TONS/YARDS _____

JOHNSON COUNTY LANDFILL, INC.
 PO BOX 3220
 SHAWNEE, KANSAS 66203
 (913)631-8181

Truck #:PEAC-38
 Bill Acct:657
 Company:COMPASS BIG BLUE

Ticket# 159950

Transaction:	4 - Outside Charges	In	Out
Payment:	1 - Charge	Date	10/07/03
Origin:	340 - CONTAM. SOIL	ID	MRS
Vehicle:	150 - Trailers (over 18')		MRS
Material:	20 - Special Waste	Lbs	Tons
Route:	9999 - Not Applicable	Gross	144020 72.01 1
Author.#:	03-210	Tare	33940 16.97 (K)
PO Number:		Net	110080 55.04
Job Number:			
Reference:	OLD GST STEEL PLANT 9:00AM		
Tip Fee:	990.72 @ \$18.00/tn		
Special Fee:	19.26 @ Fu-1		
Total Fee:	\$1009.98	1 - Fuel Surcharge	

Driver: _____ Scale Operator:MARK SCHROEPP

SPECIAL WASTE MANIFEST DISPOSAL TICKET

JOHNSON COUNTY LANDFILL
 17955 HOLIDAY DRIVE
 SHAWNEE, KS 66217
 DISPOSAL SITE

TICKET # 159950
 STATE # 03210

DATE: 10/17/03
 TRANSPORTER: Tom Peace Trucking
 GENERATOR: Compass Big Blue
 GENERATOR'S SIGNATURE: 712
 CONTRACTOR & SIGNATURE: Compass Environmental / 10/17/03
 DATE
 WASTE DESCRIPTION: Lead contaminated soil
 QUANTITY 110,080 BOOK LOCATION _____
 ACCEPTED BY: mg TIME: 1 / 1 TRUCK NO. 38
 DRIVER'S SIGNATURE: WES DATE: 10/17/03 BOX NO. _____ TONS/YARDS _____

JOHNSON COUNTY LANDFILL, INC.
 PO BOX 3220
 SHAWNEE, KANSAS 66203
 (913)631-8181

Truck #: PEAC-38
 Bill Acct: 687
 Company: COMPASS BIG BLUE

Ticket# 160126

Transaction:	4 - Outside Charges	In	Out
Payment:	1 - Charge	Date	10/07/03
Origin:	340 - CONTAM. SOIL	ID	MRS
Vehicle:	150 - Trailers (over 18')		MRS
Material:	20 - Special Waste	Lbs	Tons
Route:	9999 - Not Applicable	Gross	87460
Author.#:	03-210	Tare	33940
PO Number:		Net	53520
Job Number:			43.73 1
Reference:	OLD GST STEEL PLANT 11:41AM		16.97 (K)
			26.76

Tip Fee: 481.68 @ \$18.00/tn
 Special Fee: 9.37 @ Fu-1
 Total Fee: \$491.05
 1 - Fuel Surcharge

Driver: _____ Scale Operator: MARK SCHROEPP

MONARCH INDUSTRIES / OVERLAND PARK, KS 66202 / 913-262-4505

SPECIAL WASTE MANIFEST DISPOSAL TICKET

JOHNSON COUNTY LANDFILL
 17955 HOLIDAY DRIVE
 SHAWNEE, KS 66217
 DISPOSAL SITE

TICKET# 10160126
 STATE# 03210

DATE: 10/7/03

TRANSPORTER: Pom Peace Trucking

GENERATOR: Compass Big Blue

GENERATOR'S SIGNATURE: 775

CONTRACTOR & SIGNATURE: Compass Environmental Sept 20, 7/103

WASTE DESCRIPTION: Lead contaminated Soil DATE

QUANTITY 53520

BOOK LOCATION _____

ACCEPTED BY: DJ

TIME: 11:41AM

TRUCK NO. 38

DRIVER'S SIGNATURE: WCH

DATE: 10/7/03 BOX NO. _____

TONS/YARDS

Appendix H
Drawing showing SWMU 25 and SWMU 26 locations with
Proposed deed restriction boundaries

SWMU 25
Property Deed Boundary

Asphalt

Concrete Pad

Rod Mill
Footprint
(concrete)

Roll Shop
Footprint
(concrete)

Property Deed
Boundary

75'

SWMU 25

65'

SWMU 26
Property Deed Boundary

Rod Mill - SW Corner
Footprint (concrete)

75'

15'

SWMU 26

Asphalt Pavement

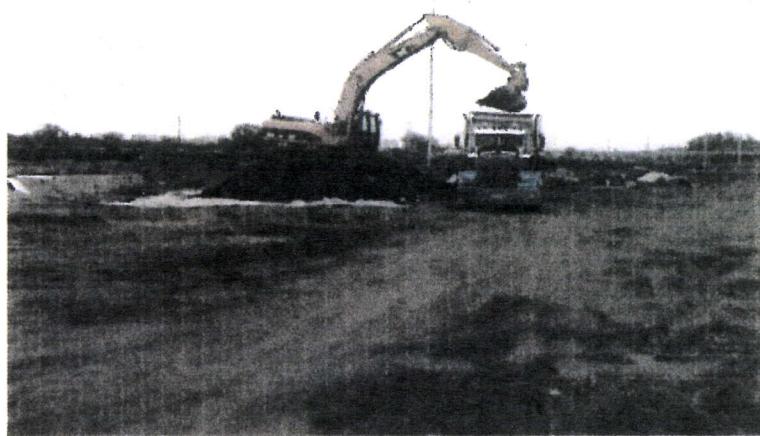
Motor Control
Footprint (concrete)

Property Deed
Boundary

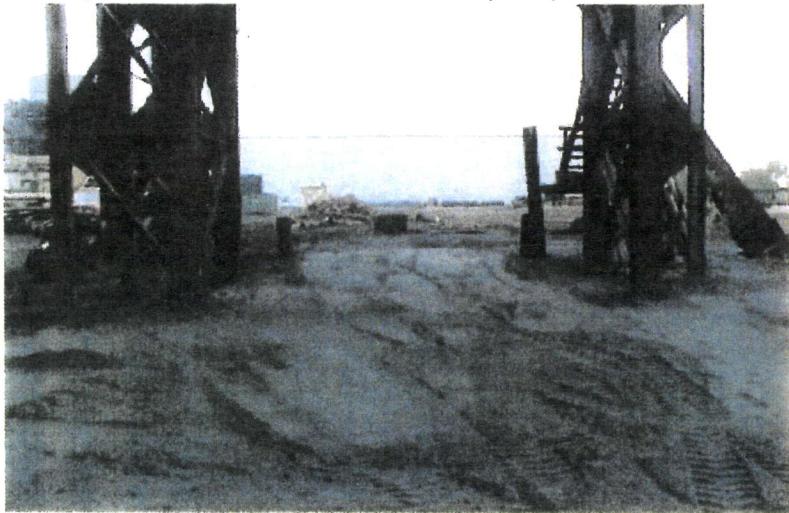
Appendix I
Photos



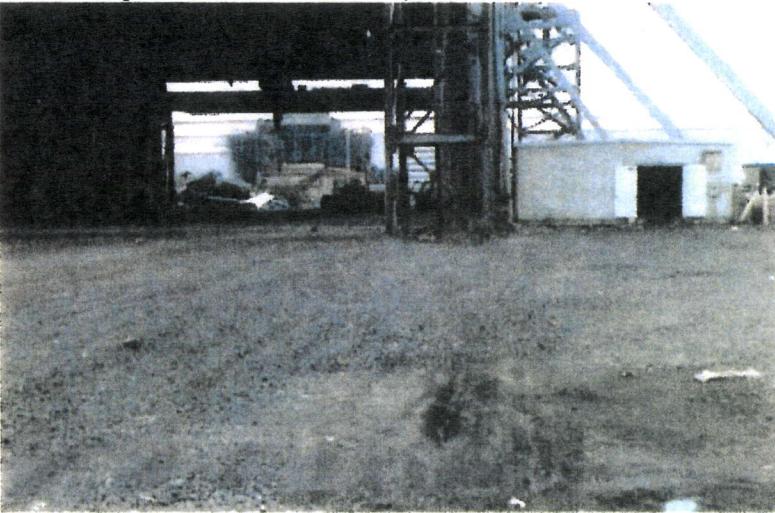
Stockpiled soil removed from SWMU 8 and 11 ready to ship off-site



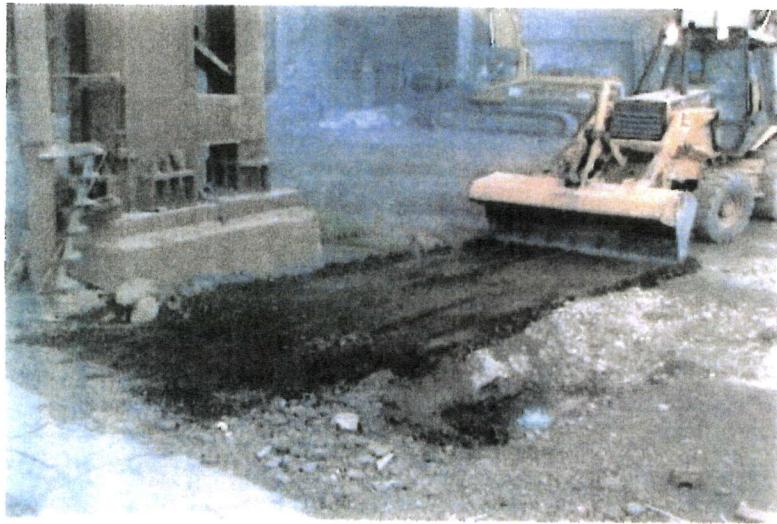
Loading SWMU 8 and 11 soil into dump truck to haul off-site to landfill



West Baghouse area backfilled with clean aggregate



East Baghouse area backfilled with clean aggregate



SWMU 8 and 11 - West Baghouse Soil Removal



SWMU 8 and 11 - East Baghouse Soil Removal